

## INDEX TO VOLUME XXVII

- Abernethy, Kenneth C. *Characterization of certain classes of spaces with  $G_\delta$  points as open images of metric spaces*, 1229-1238
- Adler, Andrew and Williams, R. Douglas. *Transferring results from rings of continuous functions to rings of analytic functions*, 75-87
- Akçoglu, M. A. *A pointwise ergodic theorem in  $L_\infty$ -spaces*, 1075-1082
- Aliprantis, Charalambos D. *On order properties of order bounded transformations*, 666-678
- Andersen, Kenneth F. *Norm inequalities for ultraspherical and Hankel conjugate functions*, 162-171
- Anderson, C. L.; Hyams, W. H. and McKnight, C. K. *Center points of nets*, 418-422
- Asoff, Edward A. *Compact operators in reductive algebras*, 152-154
- Bajpai, S. K. and Tanne, Joseph. *Analogues of entire function inequalities for an analytic function*, 286-293
- Balbes, Raymond. *On the triple characterization for Stone algebras*, 852-859
- Barnard, R. W. *A variational technique for bounded starlike functions*, 337-347
- Beachy, John A. *On maximal torsion radicals, II*, 115-120
- Bennett, Harold R. and Martin, Harold W. *A note on certain spaces with bases (mod  $K$ )*, 469-474
- Biedenharn, L. C.; de Vries, E.; van Zanten, A. J. and Sharp, W. T. *On quasi-ambivalent groups*, 246-255
- Blair, David E. *On a generalization of the catenoid*, 231-236
- Bottema, Oene. *Cardan motion in elliptic geometry*, 37-43
- Breen, Marilyn. *Points of local nonconvexity and finite unions of convex sets*, 376-383
- *An  $n + 1$  member decomposition for sets whose  $L_{nc}$  points form a convex set*, 1378-1383
- *Intersections of  $m$ -convex sets*, 1384-1391
- Brenner, J. L.; MacLeod, R. A. and Olesky, D. D. *Non-free groups generated by two  $2 \times 2$  matrices*, 237-245
- Brown, Gordon. *Cartan subalgebras of Zassenhaus algebras*, 1011-1021
- Bruen, A. *Subregular spreads and indicator sets*, 1141-1148
- Burgess, W. D. and Raphael, R. *Complete and orthogonally complete rings*, 884-892
- Butler, G. and Macki, J. W. *Oscillation and comparison theorems for second order linear differential equations with integrable coefficients: Corrigendum*, 736
- Casazza, Peter G. and Lohman, Robert H. *A general construction of spaces of the type of R. C. James*, 1263-1270
- Chacron, M.; Herstein, I. N. and Montgomery, S. *Structure of a certain class of rings with involution*, 1114-1126
- Cheng, Chao-Kun. *H-equivalence classes of multiplication on certain fiber spaces*, 752-765
- Chimenti, Frank A. *Convergence formulas for sequences of sets*, 961-969
- Chong, Kong-Ming. *Variation reducing properties of decreasing rearrangements*, 330-336
- Clough, Robert R. *The map  $SJ \rightarrow SF$  does not deloop mod 2*, 737-745
- Cordes, Craig M. *Some results on totally isotropic subspaces and five-dimensional quadratic forms over  $GF(q)$* , 271-275
- Czerwinski, Terry. *On finite line transitive affine planes whose collineation groups contain no Baer involutions*, 225-230
- Dash, A. T. *On a Brown-Halmos-Pearcy lemma*, 495
- Day, Alan. *Filter monads, continuous lattices and closure systems*, 50-59
- Delver, Robert. *Boundary and interior control for partial differential equations*, 200-217
- de Vries, E.; van Zanten, A. J.; Sharp, W. T. and Biedenharn, L. C. *On quasi-ambivalent groups*, 246-255

- de Vries, E. and van Zanten, A. J. *Criteria for groups with representations of the second kind and for simple phase groups*, 328-344
- Dera, Mikhail. *Racine minimum d'un groupe élémentaire abélien*, 819-826
- Divinsky, N. *Unequival rings*, 670-690
- Dolan, J. Michael and Klaasen, Gene A. *Strongly oscillatory and non-oscillatory subspaces of linear equations*, 106-110
- Edmunds, Charles C. *Products of commutators as products of squares*, 1329-1335
- Elliott, George A. *An abstract Dauts-Hofmann-Kaplansky multiplier theorem*, 827-836
- Faulkner, G. D. and Harley, P. W., III. *Metrization of symmetric spaces*, 986-990
- Fieldhouse, David J. *Absolute purity*, 6-10
- Florence, J. B. *On splitting an infinite recursively enumerable class*, 1127-1140
- Fontenot, Robert A. *Strict topologies for vector-valued functions: Corrigendum*, 1183-1184
- Fromke, Jon. *Maximal pre-primal clusters*, 746-751
- Gaglione, Anthony M. and Waldinger, Hermann V. *On nilpotent products of cyclic groups - reexamined by the commutator calculus*, 1185-1210
- Gaskill, H. S. and Platt, C. R. *Sharp transferability and finite sublattices of free lattices*, 1036-1041
- Gaskill, H.; Grätzer, G. and Platt, C. R. *Sharply transferable lattices*, 1246-1262
- Gauthier, Paul M. and Rubel, Lee A. *Interpolation in separable Fréchet spaces with applications to spaces of analytic functions*, 1110-1113
- Gauthier, P. M. *Equidistribution des valeurs d'une application holomorphe générique à valeurs dans l'espace projectif*, 1323-1328
- Ginsburg, John. *Some results on the countable compactness and pseudocompactness of hyper-spaces*, 1392-1399
- Grätzer, G. and Sichter, J. *Free decompositions of a lattice*, 276-285
- Grätzer, G.; Platt, C. R. and Gaskill, H. *Sharply transferable lattices*, 1246-1262
- Gustafson, G. B. and Sedeiwy, S. *Solution space decompositions for  $n^{\text{th}}$  order linear differential equations*, 508-512
- Hager, Anthony W. *Perfect maps and epi-reflective hulls*, 11-24
- Hahn, Kyong T. *Holomorphic mappings of the hyperbolic space into the complex Euclidean space and the Bloch theorem*, 446-458
- Halbhavi, I. G. and Varadarajan, K. *Gottlieb sets and duality in homotopy theory*, 1042-1055
- Harley, P. W., III and Faulkner, G. D. *Metrization of symmetric spaces*, 986-990
- Hay, Louise. *Rice theorems for D.R.E. sets*, 352-365
- Heerema, N. and Kreimer, H. F. *Modularity vs. separability for field extensions*, 1176-1182
- Herstein, I. N. *Certain submodules of simple rings with involution, II*, 629-635
- Herstein, I. N.; Montgomery, S. and Chacron, M. *Structure of a certain class of rings with involution*, 1114-1126
- Ho, C. Y. *Some explicit generators for  $SL(3, \mathbb{P})$ ,  $SU(3, \mathbb{P})$ ,  $Sp(4, \mathbb{P})$  and  $SL(4, \mathbb{P})$* , 970-979
- Hodel, R. E. *On a theorem of Arhangel'skii concerning Lindelöf  $p$ -spaces*, 459-468
- Hong, Sung Sa. *Extensive subcategories of the category of  $T_0$ -spaces*, 311-318
- Huige, Gastavus E. *The spectral resolution of some non-selfadjoint partial differential operators*, 1316-1322
- Husain, T. and Warsi, S. A. *Positive definite functions for the class  $L_2(G)$* , 1149-1156
- Hutchinson, Joan P. *Eulerian graphs and polynomial identities for skew-symmetric matrices*, 590-599
- Hyams, W. H.; McKnight, C. K. and Anderson, C. L. *Center points of sets*, 418-422
- Isaacs, I. M. *Character degrees and derived length of a solvable group*, 146-151
- Jackson, H. L. *On the mapping properties of certain exceptional sets in  $\mathbb{R}^3$* , 44-49
- Jonker, Leo B. *Immersions with semi-definite second fundamental forms*, 610-617
- Jonsson, B.; McNulty, G. and Quackenbush, R. *The ascending and descending varietal chains of a variety*, 25-31
- Kalmanson, Kenneth. *Edgconvex circuits and the traveling salesman problem*, 1000-1010
- Kalmbach, Godrun. *On some results in Morse theory*, 88-105

- Kelly, David and Rival, Ivan. *Planar lattices*, 636-665
- Kenny, G. Otis. *The completion of an abelian l-group*, 980-985
- Kim, Jongsik. *A characterization of a lattice homomorphism*, 172-175
- Klaassen, Gene A. and Dolan, J. Michael. *Strongly oscillatory and nonoscillatory subspaces of linear equations*, 106-110
- Koch, R. M. and Lowenthal, Franklin. *Uniform finite generation of three-dimensional linear Lie groups*, 396-417
- Koh, E. L. *The n-dimensional distributional Hankel transformation*, 423-433
- Kreimer, H. F. and Heerema, N. *Modularity vs. separability for field extensions*, 1176-1182
- Laird, P. G. *Entire mean periodic functions*, 805-818
- Lawrence, John. *The coefficient ring of a primitive group ring*, 489-494
- Leach, Ronald J. *Multivalent and meromorphic functions of bounded boundary rotation*, 186-199
- Leise, James A. *The Bott suspension and the intrinsic join*, 1211-1221
- Lelek, A. and Tymchatyn, E. D. *Pseudo-confluent mappings and a classification of continua*, 1336-1348
- Lewis, Roger T. *The oscillation of fourth order linear differential operators*, 138-145
- Limaye, B. V. and Simha, R. R. *Deficiencies of certain real uniform algebras*, 121-132
- Lindner, C. C. and Rosa, A. *Construction of large sets of almost disjoint Steiner triple systems*, 256-260
- . *Steiner triple systems having a prescribed number of triples*, 1166-1175
- Lohman, Robert H. and Casazza, Peter G. *A general construction of spaces of the type of R. C. James*, 1263-1270
- Lohoué, N. *Sur certains sous-espaces de  $B_2(G)$* , 500-507
- . *Synthèse harmonique des sous-groupes discrets*, 792-796
- Lovelady, David Lowell. *Partially bounded solutions of linear ordinary differential equations*, 366-371
- Lowenthal, Franklin and Koch, R. M. *Uniform finite generation of three-dimensional linear Lie groups*, 396-417
- Lutzer, D. J. *Some constructions in abstract measure theory*, 860-866
- Macki, J. W. and Butler, G. *Oscillation and comparison theorems for second order linear differential equations with integrable coefficients: Corrigendum*, 736
- MacLeod, R. A.; Olesky, D. D. and Brenner, J. L. *Non-free groups generated by two  $2 \times 2$  matrices*, 237-245
- Magid, Andy R. *Ultrafunctors*, 372-375
- Mandelberg, K. I. *A note on quadratic forms over arbitrary semi-local rings*, 513-527
- Martin, Harold W. and Bennett, Harold R. *A note on certain spaces with bases (mod K)*, 469-474
- Mayland, E. J., Jr. *The residual finiteness of the classical knot groups*, 1092-1099
- Merris, Russell. *Equality of decomposable symmetrized tensors*, 1022-1024
- Montgomery, S.; Chacron, M. and Herstein, I. N. *Structure of a certain class of rings with involution*, 1114-1126
- Morales, Pedro. *A non-Hausdorff multifunction Ascoli theorem for  $k_2$ -spaces*, 893-900
- Myers, Donald. *Homeomorphisms on the solid double torus*, 797-804
- McAdam, Stephen. *Going down and open extensions*, 111-114
- McCandless, Byron H. *On  $\Sigma$ -finite families*, 481-488
- McClure, J. P. and Wong, R. *On infinite systems of linear differential equations*, 691-703
- McKnight, C. K.; Anderson, C. L. and Hyams, W. H. *Center points of nets*, 418-422
- McMaster, R. J. *Cotorsion theories and colocalization*, 618-628
- McNulty, G. and Quackenbush, R. and Jonsson, B. *The ascending and descending varietal chains of a variety*, 25-31
- Nel, L. D. *Initially structured categories and cartesian closedness*, 1361-1377
- Noonan, J. W. *Coefficient behavior for a class of meromorphic functions*, 1157-1165
- Noussair, E. S. *Oscillation of elliptic equations in general domains*, 1239-1245
- Olesky, D. D.; Brenner, J. L. and MacLeod, R. A. *Non-free groups generated by two  $2 \times 2$  matrices*, 237-245
- Osofsky, Barbara L. *A remark on colimits*, 496-499

- Patterson, Leif-Norman. *Connections and prolongations*, 766-791
- Peterson, Roger D. *One-sided inverses in rings*, 215-224
- Picardello, Massimo A. *Random Fourier series on compact non-commutative groups*, 1400-1407
- Pierce, Stephen. *Linear operators preserving the real symplectic group*, 715-724
- Platt, C. R.; Gaskill, H. S. *Sharp transferability and finite sublattices of free lattices*, 1036-1041
- Platt, C. R.; Gaskill, H. and Grätzer, G. *Sharply transferable lattices*, 1246-1262
- Powell, Robert E. and Shoop, Richard A. *The Gibbs phenomenon for generalized Taylor and Euler transforms*, 384-395
- Puttaswamaiah, B. M. *Brauer characters and Grothendieck rings*, 1025-1028
- Quackenbush, R. and Jonsson, B. and McNulty, G. *The ascending and descending varietal chains of a variety*, 25-31
- Querre, J. *Sur les anneaux réflexifs*, 1222-1228
- Radjabalipour, M. and Radjavi, H. *On decomposability of compact perturbations of normal operators*, 725-735
- Radjavi, H. and Radjabalipour, M. *On decomposability of compact perturbations of normal operators*, 725-735
- Raphael, R. and Burgess, W. D. *Complete and orthogonally complete rings*, 884-892
- Richmond, Bruce. *A general asymptotic result for partitions*, 1083-1091
- Rieffel, Marc. A. *Induced representations of rings*, 261-270
- Rival, Ivan and Kelly, David. *Planar lattices*, 636-665
- Robinson, G. de B. *Restricting and inducing on inner products of representations of finite groups*, 1349-1354
- Rosa, A. and Lindner, C. C. *Construction of large sets of almost disjoint Steiner triple systems*, 256-260
- . *Steiner triple systems having a prescribed number of triples*, 1166-1175
- Rowen, Louis Halle. *Structure of rings with involution applied to generalized polynomial identities*, 573-584
- Rubel, Lee A. and Gauthier, Paul M. *Interpolation in separable Fréchet spaces with applications to spaces of analytic functions*, 1110-1113
- Schneider, Robert. *Unit preserving isometries are homomorphisms in certain  $L^p$* , 133-137
- Schnute, Jon. *Entropy and kinetic theory for a confined gas*, 1271-1315
- Sedziwi, S. and Gustafson, G. B. *Solution space decompositions for  $n^{\text{th}}$  order linear differential equations*, 508-512
- Sharp, W. T.; Biedenharn, L. C.; de Vries, E. and van Zanten, A. J. *On quasi-ambivalent groups*, 246-255
- Shirey, James. *The convergence of series for various choices of sign in Banach spaces*, 475-480
- Shoop, Richard A. and Powell, Robert E. *The Gibbs phenomenon for generalized Taylor and Euler transforms*, 384-395
- Sichler, J. and Grätzer, G. *Free decompositions of a lattice*, 276-285
- Simha, R. R. and Limaye, B. V. *Deficiencies of certain real uniform algebras*, 121-132
- Singh, Surjeet. *Modules over hereditary Noetherian prime rings*, 867-883
- Spence, Edward. *Skew-Hadamard matrices of the Goethals-Seidel type*, 555-560
- Spiegel, Eugene. *On isomorphisms of abelian group algebras*, 155-161
- Stahl, Saul. *On the Ramsey number  $r(F, K_n)$  where  $F$  is a forest*, 385-389
- Stavarakas, Nick M.  *$L_n$  sets and the closures of open connected sets*, 1-5
- Stevenson, Frederick W. *Weakly isotopic planar ternary rings*, 32-36
- Strichartz, Robert S. *The explicit Fourier decomposition of  $L^p(\text{SO}(n)/\text{SO}(n-m))$* , 294-310
- Tanne, Joseph and Bajpai, S. K. *Analogues of entire function inequalities for an analytic function*, 286-293
- Teply, Mark L. *Generalizations of the simple torsion class and the splitting properties*, 1056-1074
- Tomkinson, M. J. *Préfrattini subgroups and cover-avoidance properties in  $U$ -groups*, 837-851
- Toomer, Graham Hilton. *Topological localization, category and co-category*, 319-322
- . *Two applications of homology decompositions*, 323-329
- Tyler, Robert. *On the lower central factors of a free associative ring*, 434-438
- Tymchatyn, E. D. and Lelek, A. *Pseudo-conformal mappings and a classification of continua*, 1336-1348

- van Zanten, A. J.; Sharp, W. T.; Biedenharn, L. C. and de Vries, E. *On quasi-ambivalent groups*, 246-255
- van Zanten, A. J. and de Vries, E. *Criteria for groups with representations of the second kind and for simple phase groups*, 528-544
- Varadarajan, K. *Numerical invariants in homotopical algebra, I*, 901-934
- *Numerical invariants in homotopical algebra, II - applications*, 935-960
- Varadarajan, K. and Halbhavi, I. G. *Gottlieb sets and duality in homotopy theory*, 1042-1055
- Vidyasankar, K. and Younger, D. H. *A minimax equality related to the longest directed path in an acyclic graph*, 348-351
- Viola-Prioli, Jorge E. *When is every kernel functor idempotent?*, 345-354
- Waldinger, Hermann V. and Gaglione, Anthony M. *On nilpotent products of cyclic groups - reexamined by the commutator calculus*, 1185-1210
- Warsi, S. A. and Husain, T. *Positive definite functions for the class  $L_2(G)$* , 1149-1156
- Weaver, Robert J. *Refinement conditions on operations in sample spaces*, 991-999
- Webster, Dallas E. *Handles, semihandles, and destabilization of isotopies*, 439-445
- Wehrfritz, B. A. F. *Faithful representations of finitely generated metabelian groups*, 1355-1360
- Wei, Albert. *Linear transformations preserving the real orthogonal group*, 561-572
- Welland, G. V. *Norm convergence of Riesz-Bochner means for radial functions*, 176-185
- White, Dennis E. *Redfield's theorems and multilinear algebra*, 704-714
- Wicke, H. H. and Worrell, J. M., Jr. *A characterization of spaces having bases of countable order in terms of primitive bases*, 1100-1109
- Williams, R. Douglas and Adler, Andrew. *Transferring results from rings of continuous functions to rings of analytic functions*, 75-87
- Wong, Pak-Ken. *The second conjugates of certain Banach algebras*, 1029-1035
- Wong, R. and McClure, J. P. *On infinite systems of linear differential equations*, 691-703
- Worrell, J. M., Jr. and Wicke, H. H. *A characterization of spaces having bases of countable order in terms of primitive bases*, 1100-1109
- Wulfsohn, Aubrey. *Tensor products of Jordan algebras*, 60-74
- Younger, D. H. and Vidyasankar, K. *A minimax equality related to the longest directed path in an acyclic graph*, 348-351